

METHOD OF MAKING FLUORINATED PROPANES

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ABSTRACT OF THE DISCLOSURE

The invention provides a process for the manufacture of fluoropropanes, and more particularly, the manufacture of 1,1,1,3,3,3-hexafluoropropane (HFC-236fa) and 1,1,1,2,3,3,3-heptafluoropropane (HFC-227ea). The process utilizes 3-carbon by-
10 products, i.e. waste material, from other commercial processes as raw material.

The process also avoids the use of hexafluoropropane (HFP) as a reactant for making HFC-227ea, and is able to convert any three-carbon hydrocarbon (HC), hydrochlorofluorocarbon (HCFC), chlorofluorocarbon (CFC) compound or any halogenated propanes and produce high valued three-carbon hydrofluorocarbons
15 (HFCs) at significantly lower cost than current commercial processes.